State Summary of Soil and Groundwater Cleanup Standards for Hydrocarbons

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for EPA Office of Underground Storage Tanks Contract # X-821096-01

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DISTRIBUTION STATEMENT A

Approved for public release; Distribution Unlimited

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	602, 624		any amount	5 ppb	5 ppb
	Ethylbenzene		•	any amount	700 ppb	700 ppb
	Toluene		*	any amount	1000 ppb	1000 ppb
	Xylenes		•	any amount	10,000 ppb	10,000 ppb
Diesel	РАН	EPA Method 610, 625	*	any amount	Site Specific**	Site Specific**
						
Waste Oil	BTEX	EPA Method 602, 625	*	any amount	Same as Gasoline	Same as Gasoline
	PAH	EPA Method 610, 625	*	any amount	Same as Diesel	Same as Diesei
	VOCS	EPA Method 601	*	any amount	DWS	DWS
	head	EPA Method 239.2		any amount	.015 ppb	.015 ppb

^{*} Dictated by Method, ** Health Advisory Limits.

Note: Risk Assessment may be utilized to allow for a higher level.

Contact: Dorothy Malaier, Alabama Department of Environmental Management, 205-270-5613

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	EPA Method 9071	*	any amount	100 ppm	100 ppm**
	TPH	Standard Method 5520	*	any amount	100 ppm	100 ppm**
	ТРН	EPA 418.1	•	any amount	100 ppm	100 ppm**
Diesel	ТРН	EPA Method 9071	•	any amount	100 ppm	100 ppm**
	ТРН	Standard Method 5520	*	any amount	100 ppm	100 ppm**
	ТРН	EPA 418.1	•	any amount	100 ppm	100 ppm**
Waste Oil	ТРН	EPA Method 9071	•	any amount	100 ppm	100 ppm**
	ТРН	Standard Method 5520	*	any amount	100 ppm	100 ppm**
	TPH	EPA 418.1		any amount	100 ppm	100 ppm**

Contact: Dorothy Malaier, Alabama Department of Environmental Management, 205-270-5613

^{*} Dictated by Method
** Risk Assessment may be utilized to allow for a higher level.

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
asoline	GRPH (C6-C10)	EPA Method 8015M	1 mg/l	any amount	sheen	sheen
	Benzene	EPA Method 602	.005 mg/l	any amount	.005 mg/l	.005 mg/l
	Toluene	EPA Method 602	.005 mg/l	any amount	1 mg/1	1 mg/l
	Ethylbenzene	EPA Method 602	.005 mg/l	any amount	0.7 mg/1	0.7 mg/l
	Xylene	EPA Method 602	.005 mg/l	any amount	10 mg/l	10 mg/l
Diesel	DRPH (C ₁₀ -C ₂₈)	EPA Method 8100M	1 mg/l	any amount	sheen	sheen
Waste Oil	All of the Above and	1				
	TPH (C ₂₉)	EPA Method 418.1	1 mg/l	any amount	sheen	sheen

Contact: Dave Belyea, Alaska Department of Environmental Conservation 907-465-5200

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Gasoline Range Petro. Hydrocarbons C ₆ -C ₁₀	EPA Method 8015M	1 mg/kg	any amount	Site Specific	Site Specific/50-1000ppm
	BTEX	EPA Method 8020	0.05 mg/kg	any amount	Site Specific 10-100ppm	Site Specific/10-100ppm
	Benzene	EPA Method 8020	0.05 mg/kg	any amount	Site Specific .15ppm	Site Specific/0.15ppm
Diesel	Diesel Range Petro.	EPA Method 8100M	10 mg/kg	any amount	Site Specific	Site Specific/100-2000ppr
	Hydrocarbons C ₁₀ -C ₂₈	•			100-2000ppm	,
Waste Oil	All of the Above and					
	TPH (C ₂₉)	EPA Method 418.1	25 mg/kg	any amount	2000 ppm	2000 ppm

Contact: Dave Belyea, Alaska Department of Environmental Conservation 907-465-5200

Product—	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 418.1	Lab dependent	any amount	X>Non Detect	X< lppb
	Benzene	EPA Method 502.2***	Lab dependent	any amount	X>Non Detect	X< 5ppb
	Toluene	EPA Method 502.2***	Lab dependent	any amount	X>Non Detect	Х< 1000ррь
	Ethylbenzene	EPA Method 502.2***	Lab dependent	any amount	X>Non Detect	X< 700ppb
	Xylenes	EPA Method 502.2***	Lab dependent	any amount	X>Non Detect	X< 10,000ppb
	VOCs	EPA Method 502.2***	Lab dependent	any amount	***	***
Diesel	ТРН	Same As Above For Gasoline				
	PAH					
	Benzo (A) Anthracene	EPA Method 524	Lab dependent	any amount	X>Nondetect	X> .1 ug/l
	Benzo (A)	EPA Method 524	Lab dependent	any amount	X>Nondetect	X> .2 ug/l
	Benzo (A) Fluoroanthene	EPA Method 524	Lab dependent	any amount	X>Nondetect	X> .2 ug/l
	Benzo (A) Fluoranthene	EPA Method 524	Lab dependent	any amount	X>Nondetect	X> .2 ug/l
Waste Oil	Requirements spo	ecific to the unique waste oil				

Contact: Sean Mckenzie, Arizona Department of Environmental Quality 602-207-4288

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	ADHS Method BLS-181	lab dependent	any amount		X<100ppm but risk Assessment option exists
	Benzene	EPA Method 8020	lab dependent	any amount	Site Specific	X<0.13ppm but risk Assessment option exists
	Toluene	EPA Method 8020	lab dependent	any amount		X<200ppm but risk Assessment option exists
	Ethylbenzene	EPA Method 8020	lab dependent	any amount		X<68ppm but risk Assessment option exists
	Xylenes	EPA Method 8020	lab dependent	any amount		X<44ppm but risk Assessment option exists
Kerosene	Identical with all	the above gasoline categories				
Diesel	TPH only	ADHS Method BLS-181	lab dependent	any amount		X<100ppm but risk Assessment option exists
Jet Fuel	Identical with all	therabove Gasoline categorie				
Heavy Oil	Identical with Die	esel above.				
Solvents	ТРН	ADHS Method BLS-181	lab dependent	any amount		X<100ppm but risk Assessment option exists
	BTEX: Identical	in all respects to BTEX for g	soline above.			
Waste Oil	TPH	ADHS Method BLS-181	lab dependent	any amount		X<100ppm but risk Assessment option exist
	BTEX Not Requ	ired				
	VOCs	EPA Method 8010	lab dependent	any amount		Compound Specific

BTEX: Benzene, Toluene, Enthylbenzene, Xylene
N.D.: Non Detect, ADHS: Arizona Department of Health Services, VOCs: Volatile Organic Compounds

Contact: Sean Mckerzie, Arizona Department of Environmental Quality 602-207-4288

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene/ Total BTEX	EPA Method 8020	lppb	Not Used	5 ppb Benzene 100ppb BTEX	Site Specific
	TPH	EPA Method 418.1	10ppm	Not Used	15 ppm	Site Specific
	ТРН	Modified 8015	10ppm	Not Used	15 ppm	Site Specific
Diesel	ТРН	EPA Method 418.1	10ppm	Not Used	15 ppm	Site Specific
	ТРН	Modified 8015	10ppm	Not Used	15 ppm	Site Specific
Waste Oil	ТРН	EPA Method 418.1	10ppm	Not Used	15 ppm	Site Specific
	ТРН	Modified 8015	10ррт	Not Used	15 ppm	Site Specific

Contact: James Atchley, Arkansas Department of Pollution Control & Ecology 501-562-6533

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 418.1	10ppm	Not Used	100 ppm	Site Specific/100-1000pp
	ТРН	Modified 8015	10ppm	Not Used	100 ppm	Site Specific/100-1000pp
	втех	EPA Method 8020	lppm	Not Used	40 ppm	Site Specific/0-400ppm
Diesel	ТРН	EPA Method 418.1	10ppm	Not Used	100 ppm	Site Specific/100-1000pp
	ТРН	Modified 8015	10ppm	Not Used	100 ppm	Site Specific/100-1000pp
Waste Oil	ТРН	EPA Method 418.1	10 ppm	Not Used	100 ppm	Site Specific/100-1000p
	ТРН	EPA Method 8015 Modified	10ppm	Not Used	100 ppm	Site Specific/100-1000p

Contact: James Atchley, Arkansas Department of Pollution Control & Ecology 501-562-6533

Product —	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
asoline	Benzene					MCLa (1ppb)
	Toluene					*State Action Level 100
	Xylene					MCLs (1750ppb)
	Ethlybenzene					MCLs (680ppb)
riesel						
Waste Oil						
			-			

^{*} Health based guidance number, nonenforcable.

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	DHS Recommended	*	NA	**	
	***Benzene	EPA Method 8020	*	NA	**	.3 to 1ppm
	***Toluene	EPA Method 8020	*	NA	**	.3 to 50ppm
	***Ethylbenzene	EPA Method 8020		NA	**	1 to 50ppm
	***Xylene	EPA Method 8020	*	NA	**	1 to 50ppm
	HVOs	EPA Method 8010	*	NA	**	Site Specific
Diesel	ТРН	DHS Recommended	•	NA	**	100 to 10,000ppm
	TRPH	EPA Method 418.1	•	NA	**	100 to 10,000ppm
	BTEX same as Ga	soline above.				
Waste Oil						
			† -		1	

Product _	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	APHA 5520C, 503B	5 μ g /1	any amount	•	Site Specific**
		EPA Method 418.1	5 μ g /l	any amount	•	Site Specific**
		California Method GC-FID	0.5 μg/l	any amount	*	Site Specific**
	TPH	EPA Method 5030, 8020, 8240	5 μ g/ Ι	any amount	•	Site Specific**
		EPA Method 602, 624	5 μ g/l	any amount	*	Site Specific**
 		Equivalent Method	5 μg/l	any amount	•	Site Specific**
Diesel	ТРН	Same As Gasoline		any amount	*	Site Specific**
	· · · · · · · · · · · · · · · · · · ·					
Waste Oil	ТРН	Same As Gasoline		any amount	*	Site Specific**
	BTEX	Same As Gasoline		any amount		Site Specific**

^{*} No established action levels, site specific. ** Drinking water standards to approximate 10ppm BTEX. Note: Water Contact: Patricia M. Ellis, Ph.D., Delaware Department of Natural samples not required during tank removal activities. Water samples required as part of hydrogeologic investigation.

Resources & Environmental Control 302-323-4588

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level*	Clean-up Level*
Gasoline	ТРН	Mod 8015, Mod 418.1 EPA Method 9071	40 mg/kg	any amount	100 ррт	Site Specific generally≤100
		APHA Metro ds 5520E/ 5520C, 503B, 503E	40 mg/kg	any amount		
	ТРН	California Method GC-FD	10 mg/kg	any amount		Site Specific generally≤10 BTEX, 1 B
	BTEX	EPA Method 3010/8020, 5030/8020	1 mg/kg	any amount	BTEX>10ppmi B>1ppm	Same As Above
		EPA Method 3810, 8240, 8240 purge & trap, Mod 602	1 mg/kg	any amount		
Diesel	ТРН	as above	as above	any amount	1000 ppm	Site Specific generally≤1000
Waste Oil	BTEX	as above	as above	any amount	BTEX>10ppm B>1ppm	Site Specific generally≤10 BTEX, 1 I
	ТРН	as above	as above	any amount	1000 ppm	Site Specific generally≤1000ppm

^{*} Class B Site. Note: Class A sites—more sensitive, more stringent. Class B sites—everage sensitivity. Class C contact: Patricia M. Ellis, Ph.D., Delaware Department of Natural sites—less sensitive, less stringent. Sites are rated by the DE DNREC as either A, B, or C. Factors influencing ratings include well locations, groundwater depth, residential, commercial or industrial settings, etc.

Product—	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 602	NA	any amount		lppb
· · · · · · · · · · · · · · · · · · ·	Total Volatiles Organic Aromatics	EPA Method 602	NA	any amount		50ppb
	1, 2 dichloroethane	EPA Method 601	NA	any amount		3ррь
	(EDB) 1, 2 dichloroethane	EPA Method 601	NA	any amount		.02ррь
	Lead .	EPA Method 239.2	NA	any amount		50ррь
	MTBE	EPA Method 602	NA	any amount		50ррь
Diesel	Same As Above Plus					
	PAHs (Excluding Naphthalenes)	EPA Method 610	10ppb	any amount		Detction Level
· · · · · ·	Total Naphthalenes	EPA Method 610	NA	any amount		100ppb
	TRPH	EPA Method 418.1	NA	any amount		5ppm
Waste Oil	Same As Diesel Plus					——————————————————————————————————————
	Prioritory Pollutant Volatile Organics	EPA Method 624	NA	any amount	Site Specific	Site Specific
	Prioritory Pollutant Extracable Organic		NA	any amount	Site Specific	Site Specific
	Ar, Cd, Cr, Pb		NA	any amount	Site Specific	Site Specific

Contact: Thomas Conrardy, Florida Department of Environmental Protection 904-488-0190

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Organic Vapor Analysis	OVA with Flame Ionization		10ppm	>500 ppm*	VOA<100ppb** TRPH<10ppm**
Diesel	Organic Vapor	OVA with Flame		10ppm	>50 ppm*	VOA<100ppb**
	Analysis	Ionization Detector				TRPH<10ppm**
						
		·				

^{*} Soils with TPH readings greater than 500ppm (or 50ppm for Diesel) require remediation. Soils with vapor readings from 10-500ppm may require cleanup depending on site factors. ** Soil cleanup criteria for thermal treatment.

Product —	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020	1 μg/1	any amount	5 μg/l	Site Specific 5-71 µg/1
	Toluene	EPA Method 8020	l μg/l	any amount	1000 µg/l	Site Specific 1000-200,000 pg/l
	Ethybenzene	EPA Method 8020	1 µg/1	any amount	700 µg/l	Site Specific 700-28,718 µg/l
	Xylene	EPA Method 8020	l μg/l	any amount	10,000 µg/l	Drinking water standards 10,000µg/l
Diesel/ Waste	P(a) P	EPA Method 550, 8270	04/10 4		02114	S'- S
Diesel Waste	Benzo (a) Pyrene	EPA Method 330, 8270	.06/10 µg/l	any amount	.0311 µg/l	Site Specific .03112 µg
	Anthracene	EPA Method 8270	10 μg/l	any amount	110,000 µg/1	* 110,000 µg/1
	Chrysene	EPA Method 8270	10 µg/l	any amount	.0311 μg/l	* .0311 µg/l
	Fluoranthene	EPA Method 8270	10 µg/1	any amount	370 μg/1	* 370 µg/l
	Fluorene	EPA Method 8270	10 µg/l	any amount	14,000 µg/l	* 14,000 µg/l
	Рутеле	EPA Method 8270	10 μg/l	any amount	11,000 µg/1	* 11,000 μg/l

^{*} Georgia in-stream water quality standards

Contact: Marlin Gottschalk, Ph.D., Georgia Department of Natural Resources, 404-362-2687

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	Modified California Method	0.1 mg/kg	any amount	100 mg/kg	Site Specific/100-500 mg/
	BTEX .	EPA Method 8020	0.001 mg/kg	any amount	20 mg/kg	Site Specific/20-100 mg/k
Diesel	ТРН	Modified California Method	0.1 mg/kg	any amount	100 mg/kg	Site Specific/100-500 mg
		e e				
Waste Oil	ТРН	Modified California Method	0.1 mg/kg	any amount	100 mg/kg	Site Specific/100-500 mg

Contact: Mariin Gottschalk, Ph.D., Georgia Department of Natural Resources, 404-362-2687

Product —	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Criteria Above The Oil / Below The Oil Lim (Maska) / Lim (Maska)
Gasoline	TPH as Gasoline	EPA Method 5030, 8015 or LUFT Method		****		***** / *****
	Benzene	•		***		.005 / 1.7
	Ethylbenzene	•		****		.7 / .14
	Toluene	•		***		1/2.1
Diesel, Jet Fuel,	TPH as Diesel	**		****		******
Kerosene, Fuel Oil						
	Benzene	•		***		.005 / 1.7
	Ethylbenzene	•		****		.7 / .14
	Toluene	•		***		1/2.1
	Acenapthene	***		***		NS / .320
	Naphthalene	***		***		NS / .78
	Fluoranthene	***		****		NS / .013
	Benzo (a) Pyrene	***	 	****	 	.0002 / NS

^{* 5030/ 8015} or 5030/ 8020 or 5030/ 8240 or 602 or 624. ** 3550/ 8015 or 3510/ 8270 or 3520/ 8270 or LUFT.
*** 3510/ 8310 or 3520/ 8310 or 3510/ 8100 or 3520/ 8100 or 610. *** All spills over 25 gallons that cannot be contained and cleaned up within 24 hours. *** No clean-up entens based on TPH-however that does not preclude use as screening method. Note: NS=No Standard

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Criteria Above The Oil Below The Oil Lim (Manka) Lim (Makai)
Fasoline	TPH as Gasoline	EPA Method 5030, 8015 or LUFT Method		***		**** / ****
	Benzene	*		****		.05 / 1.7
	Ethylbenzene	*		***		7 / 1.4
	Toluene	•		***		10 / 21
Diesel, Jet Fuel, Kerosene, Fuel Oil	TPH as Diesel	••		****		***** / *****
	Benzene	2		****		.05 / 1.7
	Ethylbenzene	•		****		7 / 1.4
	Toluene	*		****		10 / 21
	Acenapthene	***		***	 	100 / 100
	Naphthalene	***		***		100 / 100
	Fluoranthene	***		***		500 / 500
	Benzo (a) Pyrene	***		***	 	1/1

^{* 5030/ 8015} or 5030/ 8020 or 5030/ 8240. ** 3550/ 8015 or 3540/ 8270 or 3550/ 8270 or LUFT Method.

*** 3540/ 8310 or 3550/ 8310 or 3540/ 8270 or 3550/ 8270. *** All spills over 25 gallons that cannot be contained and cleaned up within 24 hours. *** No clean-up criteria based on TPH-however that does not preclude use as accepting method. Note: NS=No Standard

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Sasoline	Benzene	EPA Method 8020	lppb	any level	5 μg/l	5 ppb (μg/l)
	Toluene		1ррь	any level	1000 μg/ι	1000 ppb (µg/l)
Ethylbenzene	Ethylbenzene		1ppb	any level	700 μg/l	700 ppb (µg/l)
	Total Xylenes		lppb	any ievel	10,000 μg/l	10,000 ppb (µg/l)
Diesel	Polymiclear Aromatic Hydrocarbons	EPA Method 8270			Drinking water standards	Drinking water standard
	BTEX	EPA Method 8020	1ppb	any level	Same As Gasoline	Same As Gasoline
Waste Oil	ТРН	EPA Method 418.1			100ppm	100ppm
	VOCs	EPA Method 8240			Site Specific	Drinking water standard
	RCRA Metais	EPA Method 6010	 		Site Specific	Drinking water standard
	PAHs	EPA Method 8270			Site Specific	Drinking water standard

Contact: Thomas Neace, Idaho Division of Environmental Quality 208-334-5860

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 8015 Modified as Gas	•	any amount	> 40ppm	Site Specific/40-200ppm
	1					· · · · · · · · · · · · · · · · · · ·
	·					
Diesel	TPH	EPA Method 8015 Modified as Diesel	•	any amount	> 100ppm	Site Specific/100-2000ppn
		4				
Waste Oil	Chlorinated	EPA Method 8010			Sin Sin Sin Sin	Cia Carai G
waste Ott	Solvents	or 8240		any amount	Site Specific	Site Specific
	TPH	EPA Method 418.1	*	any amount	> 100ppm	100ppm
	TCLP, RCRA Metals	EPA Method 6010	• '	any amount	Site Specific	Site Specific/ RCRA Criteria
	PCBs	EPA Method 8080	*	any amount	Site Specific	Site Specific

^{*} Dependent on sample matrix and concentration, 10 mg/kg target.

Contact: Thomas Neace, Idaho Division of Environmental Quality 208-334-5860

Other Petroleum I Substances I	Constituent	Lab Test Protocol & Number	*****	Notification Level	Action Level	Clean-up Level
Other Petroleum I Substances I	Benzene		.002mg/l	***	***	.005mg/1
Substances I	BETX	•	.002005**	***	****	11.705mg/l
1	Benzene	•	.002mg/l	***	****	.005mg/l
	BETX	•	.002005**	***	****	11.705mg/l
	Naphthalene		.010mg/l	***	****	.025mg/l
	Acenaphthene	*	.018mg/l	***	****	.42mg/l
	Anthracene	•	.0066mg/l	***	****	2.1mg/l
I	Fluoranthene	•	.0021mg/l	***	****	.28mg/l
I	Fluorene		.0021mg/l	***	****	.28mg/l
1	Рутеле		.0027mg/l	***	****	.21mg/l
	Total Carc. PNAs	•	.00013 - .0015**	***	****	.0002mg/l
	Total Non-Carc. PNAs	*	.00076 - .010**	***	****	.21mg/l
Waste Oil	LUST Pollutants		Compound	***	*****	Site Specific

Any approved USEPA SW-846 Method. ** Each constituent has unique ADL. *** Notification criteria based on any release of product, not specific contaminant levels. **** Any amount above the cleanup objectives. **** Any amount above the screening detection limits listed on LUST pollutants list. **** Acceptable Detection Limits.

Contact: G. Tod Rowe, Illinois Environmental Protection Agency 217-782-6761

Product	Parameter/ Constituent	Lab Test Protocol & Number	****	Notification Level	Action Level	Soil Objectives mg/kg Type A / Type B
Gasoline	Benzene	•	.002mg/l	**	***	.005 / .025
	BETX	•	.002005mg/l	**	***	11.705 / 13.525
Other Petroleum Substances	Benzene	•	.002mg/1	**	***	.005 / .025
	BETX	*	.002005mg/l	**	***	11.705 / 13.525
	Naphthalene		.660mg/l	**	***	.025 / .039
	Acenaphthene	*	1.2mg/l	**	***	8.4 / 42
	Anthracene	•	.660mg/l	**	***	42 / 210
	Fluoranthene		.660mg∕l	**	***	5.6 / 28
	Fluorene	*	.140mg/1	**	***	5.6 / 28
	Рутепе	•	.180mg/1	**	***	4.2 / 21
	Total Carc. PNAs	•	.0087 - .10mg/l	••	***	4.2 / 21
	Total Non-Carc. PNAs	•	.0051 - .660mg <u>/</u> l	**	***	.002603 / .01315
Waste Oil	LUST Pollutants	•	Compound	**	****	Site Specific

Any approved USEPA SW-846 Method. ** Notification criteria based on any release of product, not specific contaminant levels. *** Any amount above the cleanup objectives. *** Any amount above the screening detection limits listed on LUST pollutants list. *** Acceptable Detection Limits.

Contact: G. Tod Rowe, Illinois Environmental Protection Agency 217-782-6761

Product	Parameter/ Constituent	Acceptable Methods	Detection Level	Notification Level	Action Level	Clean-up Level
Kerosene, Gasoline	Benzene, Toluene, Ethylbenzene, Xylene*	GC/PID 8020 or GC/MS 8240/60 or GC/MS 524.2	5ppb(ug/l)	any amount	5ppb 1000ppb 700ppb 10,000ppb	5ррь 1000ррь 700ррь 10,000ррь
	TPH (optional)	GC/FID 8015 – Modified (California)	500ppb(ug/l)			
Vaptha, Diesel	Benzene, Toluene, Ethylbenzene, Xylene* and	GC/PID 8020 or GC/MS 8240/60 or GC/MS 524.2	5ррь	any amount	Site Specific	Site Specific
<u>. "- " " " " " " " " " " " " " " " " " "</u>	Serra-Volatile Organics (SVOC)	GC/MS 8270 or GC/MS 525	10ppb	any amount	Site Specific	Site Specific
	TPH (optional)	GC/FID 8015 - Modified (California)	500ppb	any amount	Site Specific	Site Specific
Waste Oil	VOC* and	GC/PID 8020 or GC/MS 8240/60 or GC/MS 524.2	10ppb	any amount	Site Specific	Site Specific
	SVOC and	GC/MS 8270 or GC/MS 525	10 ppb	any amount	Site Specific	Site Specific
	TPH and	GC/FID 8015 Modified (California)	500ррь	any amount	Site Specific	Site Specific
	PCB and	GC/ECD 8080/8081	.5ppb(ug/l)**	any amount	Site Specific	Site Specific
	Metals***	use the appropriate SW-846 method	set by the appro-	any amount	Site Specific	Site Specific

^{*}This analysis also should include Methyl-tertiary-butyl-ether (MTBE). ** PCB Aroclor 1254 and 1260 detection limit must be 1.0 ppb. *** Metal scans must include: Arsenic, Barium, Beryllium, Cadmium, Chromium (total), Copper, Cobalt, Lead, Mercury, Nickel, Selenium, Silver and Zinc.

Contact: Lynnette Fogle, Indiana Department of Environmental Management 317-232-8603

Product	Parameter/ Constituent	Acceptable Methods	Detection Level	Notification Level	Action Level	Clean-up Level
Kerosene, Gasoline	Total Petroleum Hydrocarbons (TPH)	GC/FID 8015 – Modified (California) or GC/MS 8240/60	20ppm	any amount	On-site ≥ 100 Off-site any amount	On-site ≤ 100 Off-site N.D.
Naptha, Diesel	ТРН	GC/FID 8015 – Modified (California) or GC/MS 8270	20ppm	any amount	On-site ≥ 100 Off-site any amount	On-site ≤ 100 Off-site N.D.
	<u> </u>					
Waste Oil	VOC* and	GC/PID 8020 or GC/MS 8240/60	20ppm	any amount	Site Specific	Site Specific
	SVOC and	GC/MS 8270	20 ppm	any amount	Site Specific	Site Specific
	TPH and	GC/FID 8015 - Modified (California) or IR 418.1	20ppm	any amount	Site Specific	Site Specific
	PCB and	GC/ECD 8080/8081	1ppm	any amount	Site Specific	Site Specific
	Memis**	use the appropriate SW-846 method	set by the appro-	any amount	Site Specific	Site Specific

^{*} This analysis also should include Methyl-tertiary-butyl-ether (MTBE). ** Metal scans must include: Americ, Barium, Beryllium, Cadmium, Chromium (total), Copper, Cobalt, Lead, Mercury, Nickel, Selenium, Silver and Zinc.

Contact: Lynnette Fogie, Indiana Department of Environmental Management 317-232-8603

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	OA-1		any amount	5 ppb	Site Specific
	Toluene				2420 ppb	Site Specific
	Xylene				12000 ppb	Site Specific
	Ethylbenzene				700 ppb	Site Specific
			<u> </u>			
Diesel	same	OA-1		any amount	same as Gasoline	Site Specific
Waste Oil	same	OA-1		any amount	same as Gasoline	Site Specific

Contact: Jim Humeston, Iowa Department of Natural Resources 515-281-8957

Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
ТРН	Iowa OA-1		any amount	100 mg/kg	Site Specific
TPH	Iowa OA-2		any amount	100 mg/kg	Site Specific
	*				
ТРН	Iowa OA-2		any amount	100 mg/kg	Site Specific
		-			-
	TPH TPH	TPH Iowa OA-2	TPH Iowa OA-2	TPH lowa OA-1 Level Level TPH lowa OA-1 any amount TPH lowa OA-2 any amount 4	TPH Iowa OA-2 any amount 100 mg/kg TPH Iowa OA-2 any amount 100 mg/kg

Contact: Jim Humeston, Iowa Department of Natural Resources 515-281-8957

Product —.	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 502.2, 8020 etc	.5 ppb	.5ppb	5ррь	5ppb
	Ethylbenzene	EPA Method 502.2,503.1, 524.1, 524.2	68 ppb	68ррь	680ppb	680ррь
	Toluene	EPA Method 502.2,503.1, 524.1, 524.2	100ррь	100ppb	1000ррь	1000ррь
	Xylene	EPA Method 502.2,503.1, 524.1, 524.2	44ppb	44ppb	440ppb	440ppb
	1-2 Dichlcroethane	EPA Method 502.1,503.1 524.1,524.2,601,624,1624	.5ррь	.Sppb	5ррь	Sppb
Diesel	Napthalene	·	14.3ррь	14.3ppb	143ppb	143ppb
Waste Oil						

Contact: Thomas Wirm, Department of Health and Environment 913-296-1684

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	*	10		100 ppm	100ppm
	Benzene	EPA Method 8020,8021, 8240, 8260	.14ppm		1.4 ppm	1.4ppm
	1-2 Dichlcroethane	EPA Method 8010, 8021, 8240, 8260	.8ppm		8 ppm	8ppm
Diesel	ТРН	•	10ppm		100 ppm	100ррт
			· .			
Waste Oil	TPH	•	10ppm		100 ppm	100ppm
						·

^{*} Purge and Trap. Summation of peaks chromotograph.

Contact: Thomas Winn, Department of Health and Environment 913-296-1684

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene .	EPA Method 8240, 8260 8020 or 8021	5 ppb	>5ppb	5ррь	5ррь
	Toluene	EPA Method 8240, 8260 8020 or 8021	5ppb	>5ppb	5ppb	5ррь
	Ethylbenzene	EPA Method 8240, 8260 8020 or 8021	5ppb	>5ppb	5ppb	5 _{ppb}
	Xylene	EPA Method 8240, 8260 8020 or 8021	5 ppb	>5 ppb	5ррь	5 ррь
Diesel	PAH	EPA Method 8100, 8270 or 8310	5ppb	>5ppb	S p pb	5ррь
Waste Oil	Oil & Grease	EPA Method 9070	5ppm	>5ppm or over background	>5ppm or over background	less than background
	total lead	EPA Method 7420, 7421 or 6010	50 ppb	>50ppb	>50 ppb	50ррь

These values are under review and may change as the study progresses

Contact: Doyle Mills, Division of Waste Management 502-564-6716

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8240, 8260, 8020 or 8021	lppm	>1ppm	lppm	<1ppm
	Toluene	EPA Method 8240, 8260, 8020 or 8021	lppm	>1ppm	lppm	<1ppm
	Xylene	EPA Method 8240, 8260, 8020 or 8021	lppm	>1ppm	1ppm	<1ppm
	E-Benzene	EPA Method 8240, 8260, 8020 or 8021	lppm	>lppm	lppm	<1ppm
Diesel	PAH	EPA Method 8100, 8270 or 8310	1ppm	>lppm	lppm	1ppm
		4				
				·		
Waste Oil	Oil & Grease	EPA Method 9071	lppm -	> 10ppm or over background	>10ppm or over backgroun	<10ppm or less than background
	total lead	EPA Method 7420, 7421 or 6010	1ppm	over background	over background	less than background

These values are under review and may change as the study progresses

Contact: Doyle Mills, Division of Waste Management 502-564-6716

Product-	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline*	Benzene	EPA Method 8240 EPA Method 8020	5ppb 2ppb	any amount	MDL	Non-Detect/Backround
	Toluene	EPA Method 8240 EPA Method 8020	5ppb 2ppb	any amount	MDL	Non-Detect/Backround
	Enthylbenzene	EPA Method 8240 EPA Method 8020	5ppb 2ppb	any amount	MDL	Non-Detect/Backround
	Xylene(Total)	EPA Method 8240 EPA Method 8020	5ppb 5ppb	any amount	MDL	Non-Detect/Backround
Gasoline**	TPHG	California Method		any amount	1 ppm	>2.5ppm
	BTEX	EPA Method 8020		any amount	.25 ppm	2.5ppm
Diesel*	TPH-D	Modified 8015 California DHS	250ррь	any amount	MDL	Non-Detect/Backround
Diesel**	TPH-D	California Method		any amount	***	
Waste Oil**	Oil & Grease	EPA Method 5520F		any amount	100 ppm	300ppm
		Standard Method			- oo pp.iii	
	Volatile Organics	EPA Method SW846- M8240		any amount		10ррт

Contact: Department of Environmental Quality 504-765-0741

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 8020		any amount		Site Specific/<100ppm
	ТРНС	California Ap.A.				Site Specific/<300ppm
	<u> </u>					
Diesel	TPHD, California Ap.A.	California Ap.A.		any amount		Site Specific/<300ppm
		4				
					 	
Waste Oil	TCLP (Heavy Metals)	SW846/1311		any amount		Substitute C HW Requirements

Note: Louisians is currently revising their cleanup levels to reflect risk based levels. * Underground Storage Tanks Division. ** Solid Watse Division- no definitive standard site specific determination.

Contact: Department of Environmental Quality 504-765-0741

Note: Louisians is currently revising their cleanup levels to reflect risk based levels.

* Groundwater Protection Division ** Underground Storage Tanks Division. *** No Values at present Time.

Product—	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Ciean-up Level
Gasoline	Benzene		'5 рр ь			5ppb*
	мтве		20ррь			50ppb*
	Total Gasoline		10ррь			50ppb*
 						
Diesel	Total Fuel Oil					50ppb*
		~ -				
Waste Oil						
				İ		

^{*} Stringent sites only. Note: Maine DEP uses a decision tree approach to establish remediation standards. The three categories of LUST sites are baseline, intermediate and stringent.

Contact: Fred Lavallee, Maine Department of Environmental Protection 207-289-2651

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Total Gasoline	DEP 4.2.3	lppm	200ppm by Jar / Headspace		5mg/kg*
	 					
	1.					
Diesel	Total Fuel Oil	DEP 4.1.2	5ppm	50ppm by Jar / Headspace		10mg/kg*
		4				
Waste Oil						
			-			

Intermediate and stringers sizes only, remove seaward soils and free product (baseline sizes). Note: Maine DEP uses a decision tree approach to establish remediation standards. The three entegories of LUST sizes are baseline, intermediate and stringers.

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level (1)	Action Level	Clean-up Level (2) A / B / C Site Specific
Gasoline	Benzene	NS	NS	5/2000ug/l	NS	5/ 2000/ 7000 ug/l
· ·	Toluene	NS	NS	1000/6000ug/l	NS	1000/ 6000/50,000 ug/l
	Ethylbenzene	NS	NS	700/4000ug/1	NS	700/ 30,000/ 4000 ug/l
	Total Xylenes	NS	NS	6000/6000ug/1	NS	10,000/ 6000/ 50,000 ug/
	МТВЕ	NS	NS	700/50,000ug/l	NS	700/ 50,000/ 50,000 ug/l
Diesel	TPH	NS	NS	1000/50,000ug/l	NS	1000/ NA/ 50,000 ug/l
	Naphtalene	NS	NS	20/6000ug/l	NS	20/ 6000/ 6000 ug/l
	Phenanthrene	NS	NS	50/50ug/1	NS	30/ NA/ 50 ug/l
	Benzene	NS	NS	5/2000ug/1	NS	5/ 2000/ 7000 ug/l
Waste Oil	ТРН	NS	NS	1000/50,000ug/1	NS	1000/ NA/ 50,000 ug/i
	Various Metals	NS	NS	Metal/area specific	NS	Metal/ area Specific
	Various PAHs	NS	NS	Compound/ area specific	NS	Compound/ area Specific

Note: ug/l approximates ppb. NS= Not Specified in regulation. NA= Not Applicable (Non-volatile contaminants). (1) Two notification thresholds have been established depending upon potential use of groundwater. (2) Three cleanup values have been established depending upon potential groundwater use/ exposure: A-groundwater actual/ potential drinking water supply; B-where groundwater could be source of vapor emmissions to building; C-everywhere alternative levels possible based upon site-specific Risk Characterization.

outact: John J. Fitzgerid,
Massachusetts Department of
Environmental Protection
617-935-2160

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level (1)	Action Level	Clean-up Level (2)
Gasoline	Benzene	NS	NS	10/60 ug/g	NS	Site Specific/10-200ug/g
	Toluene	NS	NS	90/500 ug/g	NS	Site Specific/90-2500ug/g
··-··	Ethylbenzene	NS	NS	80/500 ug/g	NS	Site Specific/80-2500ug/g
	Total Xylenes	NS	NS	500/500 ug/g	NS	Site Specific/500-2500ug/g
	мтве	NS	NS	3/200 ug/g	NS	Site Specific/3-200ug/g
Diesel	ТРН	NS	NS	500/2500 ug/g	NS	Site Specific/500-5000ug/g
	Naphthalene	NS	NS	4/1000 ug/g	NS	Site Specific/4-1000ug/g
	Phenanthrene	NS	NS	100/100 ug/g	NS	Site Specific/100-2500ug/g
	Benzene	NS	NS	10/60 ug/g	NS	Site Specific/10-200ug/g
Waste Oil	ТРН	NS	NS	500/2500 ug/g	NS	Site Specific/500-5000ug/
	Various Metals	NS	NS	Metal/ Area specific	NS	Metal/ Area Specific
	Various PAHs	NS	NS	Compound/Area specific	NS	Compound/ Area Specific

Note: ug/g=ppm mass/ mass dry weight basis. NS= Not Specified in regulation. (1) Two notification thresholds have been established for "high" and "low" exposure potential areas. (2) Nine cleanup values have been established depending upon exposure potential accessibility of soil, and use/ classification of underlying groundwater. Alternative cleanup levels are allowed based upon a site-specific risk characterization. Note: Please refer to Massachusetts regulations 310 CMR 40.0000 for complete details on clean-up numbers and requirements.

Contacts John J. Pingerold,
Massechneste Department of
Barvironamental Protection,
617-896-3160

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020, 8021	1 ppb	any amount	lppb	lppb
	Toluene	EPA Method 8020, 8021	lppb	any amount	790ppb	790 ppb
	Ethylbenzene	EPA Method 8020, 8021	lppb	any amount	74ppb	74ppb
	Xylenes	EPA Method 8020, 8021	3ррь	any amount	280ррь	280ррь
Premium Gas	мтве	EPA Method 8020, 8021	50ррь	any amount	230ррь	230ррь
Leaded Gas	Lead	EPA Method 6020, 7421	3 ppb	any amount	21,000ррь	21,000ppb
Diesel	BTEX**					
	PNAs	EPA Method 8270, 8310	5 ppb	any amount	*	
Waste Oil	BTEX and Lead**					
	PNAs***					<u> </u>

^{*} Varies by component. ** At same levels as in gasoline. *** Same as in Diesel. Note: Other metals and organic solvents of waste oils need to be tested for call MDNR for further information.

Contact: Fred Sellers, Michigan Department of Natural Resources, Environmental Response Division 517-373-8168

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020, 8021	10ppb	any amount	24ppb	24ppb
	Toluene	EPA Method 8020, 8021	10ppb	any amount	16,000ppb	16,000 ppb
	Ethylbenzene	EPA Method 8020, 8021	10 ppb	any amount	1500ррь	1500 ppb
	Xylenes	EPA Method 8020, 8021	30 ppb	any amount	5600ррь	5600ppb
Premium Gas	МТВЕ	EPA Method 8020, 8021	100ррь	any amount	4600ppb	4600ррь
Leaded Gas	Lead	EPA Method 6020, 7420	1000ррь	any amount	420,000ppb	420,000ppb
Diesel	BTEX**					
	PNAs	EPA Method 8270, 8310	330ррь	any amount	•	
						<u> </u>
Waste Oil	BTEX and Lead**					
	PNAs***			,		

^{*} Varies by component. ** At same levels as in gasoline. *** Same as in Diesel. Note: Other metals and organic solvents of waste oils need to be tested for call MDNR for further information.

Product _	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	Wisconsin DNR GRO Method		any amount	Site Specific***	Site Specific***
	VOCs	Purge & Trap GC Procedure		any amount	Site Specific**	Site Specific**
Diesel	ТРН	Wisconsin DNR DRO Method		any amount	Site Specific***	Site Specific***
	VOCs	Purge & Trap GC Procedure		any amount	Site Specific**	Site Specific**
·				,		
Waste Oil*	ТРН	Wisconsin DNR DRO Method		any amount	Site Specific***	Site Specific***
	VOCs	Purge & Trap GC Procedure		any amount	Site Specific**	Site Specific**

Defined as virgin oil that is discarded before use. ** Based on risk assessment and Minnesota Department of Health Recommended Allowable Limits for drinking water. (and multiples there of) *** In most cases, action and clean-up levels in groundwater are based on VOC levels.

Contact: Jessica Ebertz, Minnesota Pollution Control Energy 612-297-8594

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	Wisconsin DNR GRO Method		any amount	40 ppm**	Site Specific****
	BTEX	•		any amount	40 ppm**	Site Specific****
	MTBE	*		any amount	40 ppm**	Site Specific****
Diesel	ТРН	Wisconsin DNR		any amount	10 ppm***	Site Specific***
		DRO Method		·		
	BTEX	*		any amount	10 ppm***	Site Specific****
	·					
					Ì	
Waste Oil	Same as Diesel -					
					 	

All samples, unless specifically noted, should use a US EPA approved method or equivalent. ^{an} Soil Vapor headspace analysis ≥ 40ppm. ^{and} Visual evidence of contamination or soil vapor headspace ≥ 10 ppm. ^{and} Additional investigation needed if base, sidewall soil samples are >50ppm TPH for sands.

Contact: Jessica Ebertz, Minnesota Pollution Control Energy 612-297-8594

Product ~	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 602, 624, 8020, 8240, 8260	•	any amount	18 ppm or more	**
Diesel	ТРН	EPA Method 418.1	.1ppm	any amount	18 ppm or more	**
Waste Oil	TPH	EPA Method 418.1	1ppm	any amount	18 ppm or more	**

^{*} Benzene-.09ppb, Toulene-.1ppb, Ethylbenzene-.05ppb, Meta & Para Xylene-.1ppb.
** 18ppm or less if no sensitive environmental receptors present.

Contact: Jackie Key, Mississippi Department of Environmental Quality 601-939-8460

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
iasoline	BTEX	EPA Method 602, 624, 8020, 8240, 8260	•	any amount	100 ppm or over	**
	,					
Diesel	TPH	EPA Method 418.1	4ppm	any amount	100 ppm or over	**
Waste Oil	ТРН	EPA Method 418.1	lppm -	any amount	100 ppm or over	**

^{*} Benzene-11.25ppb, Toluene-12.5ppb, Ethylbenzene-6.25ppb, Meta & Para Xylene-12.5ppb.
** 100ppm or less if no sensitive environmental receptors present.

Contact: Jackie Key, Mississippi Department of Environmental Quality 601-939-8460

Product —	Parameter/ Constituent	Lab Test Protocol 4 Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	EPA Method 418.1	5.0ppm	5.0ppm	Site Specific	Site Specific/5-10ppm
	Benzene	EPA Method 8020 or 8240	.005 ppm	.005ppm	Site Specific	Site Specific/5-50ppb*
	Toluene	EPA Method 8020 or 8240	.005 ppm	.005ppm	Site Specific	Site Specific/max 150ppl
	Ethylbenzene	EPA Method 8020 or 8240	.005ppm	.005ppm	Site Specific	Site Specific/max 320pph
	Xylene	EPA Method 8020 or 8240	.005 p pm	.005ppm	Site Specific	Site Specific/max 320ppl
	Total BTEX	EPA Method 8020 or 8240	.005 p pm	.005ppm	Site Specific	Site Specific/max 750pp
Diesel	Same as Gasoline					
Waste Oil	ТРН	EPA Method 418.1	Same as Gaso	line ————		
	BTEX	EPA Method 8240	Same as Gaso	line		
	Heavy Metals	EPA Method 1311/6010 (TCLP)	TCLP	Contact the Envir	onmental Serv	rices Program, Site specific.

* 5ppb for Drinking Water. Note: Regulatory levels in 40CFR 261.24

Contact: John Crawshaw, Missouri Department of Natural Resources 816-795-8655

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 418.1 Modified	5.0ppm	25ppm	Site Specific	Site Specific/50-500ppm
	Benzene	EPA Method 8020 or 8240	.05ppm	.5ppm	Site Specific	Site Specific Min (Total BTEX<2ppm) Max (Benzene 2ppm, Toluene 10ppm, Ethylbenzene 50ppm, Xylene 50ppm)
	Toluene	EPA Method 8020 or 8240	.05ppm	Total BTEX lppm	Site Specific	
	Ethylbenzene	EPA Method 8020 or 8240	.05ppm	Total BTEX 1ppm	Site Specific	
	Xylene	EPA Method 8020 or 8240	.05ppm	Total BTEX lppm	Site Specific	
Diesel	Same as Gasoline					
	,			,		
Waste Oil	ТРН	Same as Gasoline				
	BTEX	EPA Method 8240	Same as Gaso	dine ——		
	Heavy Metals	EPA Method 1311/6010 (TCLP)	40 mg/kg	Contact the Env	ironmental Se	rvices Program, Site Specifi

Note: TCLP Regulatory levels in 40CFR 261.24

Contact: John Crawshaw, Missouri Department of Natural Resources 816-795-8655

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
asoline	TPH	GRO**	Not Specified	any amount	NA	Site Specific
	Benzene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
	Toluene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
	Ethylbenzene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
	Xylenes	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
Diesel	ТРН	DRO**	Not Specified	any amount	NA	Site Specific
	Benzene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
_ ,,_;;	Toluene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
	Ethylbenzene	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
	Xylenes	602, 624, 524.2	Not Specified	any amount	NA	≥ MCL (Site Specific)
Waste Oil	TPH	DRO** with a used oil standard	Not Specified	any amount	NA	Site Specific
	VOCs	624, 524.2	Not Specified	any amount	NA	See above for BTEX*
	Cadmium, Chromium, Lead	Not Specified	Not Specified	any amount	NA	*

Contamination from metals and halogenated VOCs is under the jurisdiction of another program.
 Must be performed according to DHES guidelines.

Contact: Pat Newby, Mortana Department of Health and Environmental Sciences 406-444-5970

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Sasoline	TPH	GRO**	Non-specific Level Required	100 ppm	NA	Site Specific ≥100ppm
	Benzene	EPA Method 8020, 8260	Non-specific Level Required	1 ppm	NA	Site Specific ≥1ppm
	Total BTEX	EPA Method 8020, 8260	Non-specific Level Required	10 ppm	NA	Site Specific ≥10ppm
Diesel	ТРН	DRO**	Non-specific Level Required	100 ppm	NA	Site Specific ≥100ppm
,						
Waste Oil	ТРН	DRO** with a used oil standard	Non-specific Level Required	100 ppm	NA	Site Specific ≥100ppm
	VOCs	EPA Method 8260	Non-specific		NA	See above for BTEX*
	Cadmium, Chromium, Lead	Not Specified	Non-specific Level Required		NA	•

^{*} Contamination from metals and halogenated VOCs is under the jurisdiction of another program.

** Must be performed according to DHES guidelines.

Contact: Pat Newby, Mortana Department of Health and Environmental Sciences 406-444-5970

ne ne ne ne	EPA Method 8021, 8020, 8240, 8260, 602, 624 EPA Method 418.1 EPA Method 8021, 8020, 8240, 8260, 602, 624	Level ≤ Cleanup Level ≤ Cleanup Level ≤ Cleanup Level ≤ Cleanup Level	any amount any amount any amount any amount any amount	Cleanup level	5ppb 1000ppb 7000ppb 10,000ppb 2000ppb
es	8240, 8260, 602, 624 EPA Method 8021, 8020, 8240, 8260, 602, 624 EPA Method 8021, 8020, 8240, 8260, 602, 624 EPA Method 418.1 EPA Method 8021, 8020, 8240, 8260, 602, 624	Level ≤ Cleanup Level ≤ Cleanup Level ≤ Cleanup Level ≤ Cleanup	any amount any amount any amount	level 2 Cleanup level 2 Cleanup level 2 Cleanup level	7000ppb 10,000ppb 2000ppb
es	8240, 8260, 602, 624 EPA Method 8021, 8020, 8240, 8260, 602, 624 EPA Method 418.1 EPA Method 8021, 8020, 8240, 8260, 602, 624	Level ≤ Cleanup Level ≤ Cleanup Level ≤ Cleanup	any amount	level 2 Cleanup level 2 Cleanup level	10,000ррь
ne	8240, 8260, 602, 624 EPA Method 418.1 EPA Method 8021, 8020, 8240, 8260, 602, 624	Level ≤ Cleanup Level ≤ Cleanup	any amount	level ≥ Cleanup level	2000ррь
ne	EPA Method 8021, 8020, 8240, 8260, 602, 624	Level ≤ Cleanup		level	
	8240, 8260, 602, 624	1 4	any amount	≥ Cleanup	Spob
ne			<u> </u>	level	·
	EPA Method 8021, 8020, 8240, 8260, 602, 624	≤ Cleanup Level	any amount	≥ Cleanup level	1000ррь
benzene	EPA Method 8021, 8020, 8240, 8260, 602, 624	≤ Cleanup Level	any amount	≥ Cleanup level	7000ppb
ies	EPA Method 8021, 8020, 8240, 8260, 602, 624	≤ Cleanup Level	any amount	≥ Cleanup levei	10,000ррь
1	EPA Method 418.1	≤ Cleanup Level	any amount	≥ Cleanup level	2000ррь
	EPA Method 418.1	≤ Cleanup Level	any amount	≥ Cleanup level	2000ррь
3		EPA Method 8021, 8020, 8240, 8260, 602, 624 EPA Method 418.1	EPA Method 8021, 8020. ≤ Cleanup 8240, 8260, 602, 624 Level EPA Method 418.1 ≤ Cleanup Level EPA Method 418.1 ≤ Cleanup	EPA Method 8021, 8020, SCleanup any amount 8240, 8260, 602, 624 EPA Method 418.1 SCleanup any amount Level EPA Method 418.1 SCleanup any amount EPA Method 418.1 SCleanup any amount	EPA Method 8021, 8020, ≤ Cleanup any amount ≥ Cleanup level EPA Method 418.1 ≤ Cleanup any amount ≥ Cleanup level EPA Method 418.1 ≤ Cleanup any amount ≥ Cleanup level EPA Method 418.1 ≤ Cleanup any amount ≥ Cleanup

Contact: Marc Fisher, Nebraska Department of Environmental Quality 402-471-4230

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8021, 8020 8240, 8260	≤ Cleanup Level	any amount	≥ Cleanup Level	Site Specific/.005-50ppm
	Total BTEX	EPA Method 8021, 8020 8240, 8260	≤ Cleanup Level	any amount	≥ Cleanup Level	Site Specific/1-10,000ppm
	TRPH	EPA Method 418.1	≤ Cleanup Level	any amount	≥ Cleanup Level	Site Specific/10-500ppm
Diesel	Benzene	EPA Method 8021, 8020 8240, 8260	≤ Cleanup Level	any amount	≥ Cleanup Level	Site Specific/.005-50ppm
	Total BTEX	EPA Method 8021, 8020 8240, 8260	≤ Cleanup Level	any amount	≥ Cleanup Level	Site Specific/1-10,000ppm
	TRPH	EPA Method 418.1	≤ Cleanup Levei	any amount	≥ Cleanup Levei	Site Specific/100-500ppm
Waste Oil	TRPH	EPA Method 418.1	≤ Cleanup Level _	any amount	≥ Cleanup Level	Site Specific/10-500ppm
	VOCs, SVOCs	EPA Method 8240/ 8260; 8270	≤ Cleanup Level	any amount	≥ Cleanup Level	Established Case-By-Case

Contact: Marc Fisher, Nebraska Department of Environmental Quality 402-471-4230

Product —	Parameter/ Constituent	Lab Test Protoçoi & Number	Detection Level	Notification Level	Action Level	Clean-up Level
asoline	Benzene	EPA Method 624	l ug/l	> 25 Gallons or 3 Cubic Yards	MCLs Sppb	MCLs
	Toluene	EPA Method 624	l ug/l		MCLs lppm	MCLs
<u> </u>	Ethylbenzene	EPA Method 624	l ug/l		MCLs .7ppm	MCLs
	Xylene	EPA Method 624	1 ug/1		MCLs 10ppm	MCLs
				25.0 11)	
Diesel	Benzene	EPA Method 624	l ug/l	> 25 Gallons or 3 Cubic Yards	MCLs As Above	MCLs
	Toluene	EPA Method 624	1 ug/1		MCLs As Above	MCLs
	Ethylbenzene	EPA Method 624	l ug/l		MCLs As Above	MCLs
	Xylene	EPA Method 624	l ug/i		MCLs As Above	MCLs
Waste Oil	BTEX	EPA Method 624,	l ug/l	> 25 Gallons or 3 Cubic Yards	MCLs As Above	MCLs
		TCLP Inorganics			MCLs	MCLs

Contact: Larry Woods, Nevada Department of Conservation and Natural Resources 702-687-5872

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 8015 Modified	10 mg/kg	> 25 Gallons or 3 Cubic Yards	100 ppm	100 ppm
	,					
Diesel	ТРН	EPA Method 8015 Modified	10 mg/kg	> 25 Gallons or 3 Cubic Yards	100 ppm	100 ppm
		4		3 Cubic Fards		
Waste Oil	ТРН	EPA Method 8015 Modified,	10 mg/kg	> 25 Gallons or 3 Cubic Yards	100 ppm MCLs	100 ppm - MCLs
		TCLP Inorganics			MCLs	MCLs

Contact: Larry Woods, Nevada Department of Conservation and Natural Resources 702-687-5872

Produet -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Groundwater Quality Criteria
Gasoline	Benzene	EPA Method 524 (Drinking Water)	Test Specific	any amount	NS	.2
	Toluene	EPA Method 524 (Drinking Water)	Test Specific	any amount	NS	1000
	Ethylbenzene	EPA Method 524 (Drinking Water)	Test Specific	any amount	NS	700
	Xylene	EPA Method 524 (Drinking Water)	Test Specific	any amount	NS	40
	Anthracene	EPA Method 525	Test Specific	any amount	NS	2000
· · · · · · · · · · · · · · · · · · ·	Naphthalene	EPA Method 524.2	Test Specific	any amount	NS	
	Lead	NS	Test Specific	any amount	NS	5
	Benzo (A) Pyrene	EPA Method 525	Test Specific	any amount	NS	NA
Diesel	Same As Above Fo	r Gasoline				

NS=Not Specified

Contact: New Jersey Department of Environmental Protection 609-984-3156

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Critoria Residential / Non-Residential
Gasoline	Benzene	EPA Method SW 846	Test Specific	any amount	NS	3mg/kg / 13mg/kg
	Toluene	EPA Method SW 846	Test Specific	any amount	NS	1000mg/kg / 1000mg/kg
	Ethylbenzene	EPA Method SW 846	Test Specific	any amount	NS	1000mg/kg / 1000mg/kg
	Xylene	EPA Method SW 846	Test Specific	any amount	NS	<110mg/kg / 1000mg/kg
	Anthracene	EPA MethodSW 846	Test Specific	any amount	NS	10,000mg/kg / 10,000mg/k
	Naphthalene	EPA Method SW 846	Test Specific	any amount	NS	230mg/kg / 4200mg/kg
	Lead	EPA Method SW 846	Test Specific	any amount	NS	100mg/kg / 600mg/kg
	Benzo (A) Pyrene	EPA Method SW 846	Test Specific	any amount	NS	.66mg/kg / .66mg/kg
Diesel	Same As Above Fo	- Gasoline				
			-			
		l	 			

NS=Not Specified Note: Refer to clean-up standards for contaminated sites NJAC 7:26D

Contact: New Jersey Department of Environmental Protection 609-984-3156

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 602			.01 ppm	.01 ppm
	Toluene	EPA Method 602			.75 ppm	.75 ppm
	Ethylbenzene	EPA Method 602			.75 ppm	.75 ppm
	Xylene (Total)	EPA Method 602			.62 ppm	.62 ppm
	МТВЕ	EPA Method 602			.1ppm	.1ppm
	EDB/ EDC	EPA Method 624			.0001 ppm/	.0001 ppm/.01 ppm
Diesel	Napthalene	EPA Method 610			.03 ppm	.03 ppm
	Benzo (A) Prrene	EPA Method 610			.0007 ppm	.0007 ppm
		~ =				
Waste Oil	ТРН	Modified 8015			100 ppm	100 ppm
	TCLP-Semi-Volatiles, Volatiles, PCBs, Metal	1			Per RCRA	Per RCRA

Contact: Anna Richards, New Mexico Environmensal Department 505-827-0079

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TAH	EPA Method 8020			50 ppm	50 ppm
	BTEX	EPA Method 8020			•	•
Diesel	ТРН	EPA Method 8015 Modified			100 ppm	100ppm
		EPA Method 418.1			100ppm	100ррт
Waste Oil	Same as Diesel +				Per RCRA	Per RCRA
	TCLP-Semi-Volatiles, Volatiles, PCBs, Metal					

^{*} Total 50ppm, Benzene .10ppm

Contact: Anna Richards, New Mexico Environmental Department 505-827-0079

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Sasoline	Benzene	EPA Method 8021 or 8020	lppb	any amount	.7ppb	Action Level, or when no achievable site specific
	Ethylbenzene	EPA Method 8021 or 8020	1ppb	any amount	5ppb	Action Level, or when no achievable site specific
	Toluene	EPA Method 8021 or 8020	lppb	any amount	5ppb	Action Level, or when no achievable site specific
	Xylene	EPA Method 8021 or 8020	2ppb	any amount	5ppb	Action Level, or when no achievable site specific
	MTBE	EPA Method 8021 or 8020	1ppb	any amount	50ррь	Action Level, or when no achievable site specific
	Other Compounds Listed in STARS #1	EPA Method 8021	Compound Specific	any amount	Compound Specific	Action Level, or when neachievable site specific
Diesel	Napthalene	EPA Method 8021 or 8270	lppb or 6ppb	any amount	10ррь	Action Level, or when nachievable site specific
	Anthracene	EPA Method 8270	8ppb	any amount	50ppb	Action Level, or when n achievable site specific
	Fluorene	EPA Method 8270	8ррь	any amount	50ррь	Action Level, or when n achievable site specific
	Рутеле	EPA Method 8270	8ррь	any amount	50ррь	Action Level, or when n achievable site specific
	Other Compounds Listed in STARS #1		Compound Specific	any amount	Compound Specific	Action Level, or when nachievable site specific
Waste Oil	PCBs	EPA Method 8270	Compound Specific	Compound Specific	Compound Specific	Compound Specific
	Halogenated Organics	EPA Method 8020	Compound Specific	Compound Specific	Compound Specific	Compound Specific

Contact: Chris O'Neill, New York Department of Environmental Conservation 518-457-9412

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8021 or 8020	2ррь	any amount	14ppb	Site Specific
	Ethylbenzene	EPA Method 8021 or 8020	2ppb	any amount	100ррь	Site Specific
	Toluene	EPA Method 8021 or 8020	2ррь	any amount	100ррь	Site Specific
	Xylene	EPA Method 8021 or 8020	2ppb	any amount	100ррь	Site Specific
	МТВЕ	EPA Method 8021 or 8020	1ррь	any amount	1000ррь	Site Specific
	Other Compounds Listed in STARS #1	EPA Method 8021	Compound Specific	any amount	Compound Specific	Site Specific
Diesel	Napthalene	EPA Method 8021	lppb	any amount	200ррь	Site Specific
	Anthracene	EPA Method 8270	330ррь	any amount	1000ppb	Site Specific
	Fluorene	EPA Method 8270	330ррь	any amount	1000ppb	Site Specific
	Pyrene	EPA Method 8270	330ррь	any amount	1000ppb	Site Specific
	Other Compounds Listed in STARS #1	EPA Method 8021 or 8270	Compound Specific	any amount	Compound Specific	Site Specific
Waste Oil	PCBs	EPA Method 8270	Compound Specific	Compound Specific	Compound Specific	Compound Specific
·	Halogenated Organics	EPA Method 8021	Compound Specific	Compound Specific	Compound Specific	Compound Specific
	See Diesel - Parameters Above					

Contact: Chris O'Neill, New York Department of Environmental Conservation 518-457-9412

Prod uct —	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 601 & 602 or 502.2 & 524.2	MDL	None Specified	Nane Specified	Site Specific
	МТВЕ	Also Xylenes, MTBE, EDB, Isopropyl Ether and		None Specified	None Specified	
		Standard Methods 3030C (Lead)		None Specified	None Specified	
	BTEX	602 (Include Xylenes)	MDL	None Specified	None Specified	Site Sand Sa
Diesel	BIEA	or 502.2 and 625 plus	WIDE	Noie Special	I WIE Specified	Site Specific
	MTBE	10 Largest Peaks and Standard Methods		None Specified	None Specified	
		3030C (Lead)				
Waste Oil	BTEX	502.2 and 625 with 10		None Specified	None Specified	Site Specific
	MTBE	Largest Peaks Identified and Standard Method		None Specified	Name Specified	
	WIDE	3030C*		THORE SPECIALCO	· - GE SPEZIE	

Note: MDL = Method Detection Limit.

* For Waste Oil the analysis must include Arsenic, Cadmium, Chromium, Lead and Mercury.

Contact: Nardis Toma, North Carolina Department of Environmental Management, 919-733-1320

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Lev.
Sasoline	TPH	SW 846/ EPA Method 5030	10 PPM	None Specified	Name Specified	Site Specific*
-						
		·				
Diesel	ТРН	SW 846/ EPA Method 5030/ 3550	10ppm/ 40ppm	None Specified	None Specified	Site Specific*
Waste Oil	ТРН	SW 846/ EPA Method 9071/ 8021	MDL for 8021	None Specified	None Specified	Site Specific*
<u> </u>	Total Organics and Metals	1311 (TCLP)	MDL for	None Specified	Nane Specified	Site Specific*

Note: MDL = Method Detection Limit. * North Carolina used a Site Sensitivity evaluation to rate sites, cleanup criteria are based on evaluation.

Contact: Nardis Toma, North Carolina Department of Environmental Management, 919-733-1320

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 524.2	.5ppb	any amount	5 ppb	Site Specific/Sppb
	Toluene	EPA Method 524.2	.5ррь	any amount	5ppb	Site Specific
	Ethlybenzene	EPA Method 524.2	.5ppb	any amount	Sppb	Site Specific
	Xylenes	EPA Method 524.2	.5ррь	any amount	5ррь	Site Specific
Diesel	TRPH	EPA Method 418.1	1 mg/l			Site Specific
				·		
Waste Oil	Lead	EPA Method 239.2	.2ug/l			Site Specific
	Chromium	EPA Method 218.2	.2ug/i		-	Site Specific
	Cadmium	EPA Method 213.2	.2ug/1			Site Specific

Contact: Gary Bracht, State Department of Health and Consolidated Laboratories 701-221-5166

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	EPA Method 418.1 or *DHS		any amount	100 ppm	Site Specific/100+ ppm
Diesel	ТРН	EPA Method 418.1 or *DHS		any amount	100 ppm	Site Specific/100+ ppm
	<u> </u>					
Waste Oil	BTEX	EPA Method 8020		any amount	.5mg∕l Benzene	
	Lead	EPA Method 239.2		any amount	5mg/l	
	Chromium	EPA Method 218.2		any amount	5mg/l	
	TOX	EPA Method 9020, 9022	-	any amount	1000mg/i	

^{*} California Department of Health Services Method.

Contact: Gary Bracht, State Department of Health and Consolidated Laboratories 701-221-5166

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 602	Method Specific	any amount	.005 ppm	Site Specific
	Toluene	EPA Method 602	Method Specific	any amount	12 ppm	Site Specific
	Ethylbenzene	EPA Method 602	Method Specific	any amount	.700 ppm	Site Specific
	Total Xylenes	EPA Method 602	Method Specific	any amount	10 ppm	Site Specific
	ТРН	None Specified	None Specified	None Specified	None Specified	None Specified
Diesel	Benzene	EPA Method 602	Method Specific	any amount	.005 ppm	Site Specific
	Toluene	EPA Method 602	Method Specific	any amount	12 ppm	Site Specific
	Ethylbenzene	EPA Method 602	Method Specific	any amount	.700 ppm	Site Specific
	Total Xylenes	EPA Method 602	Method Specific	any amount	10 ppm	Site Specific
	PNAs	EPA Method 610	Method Specific	any amount	Site Specific	Site Specific
	ТРН	None Specified	None Specified	None Specified	None Specified	None Specified
Waste Oil	Volatile Organic Aromatics	EPA Method 624	Method Specific	any amount	Site Specific	Site Specific

Contact: Raymond Roc, Ohio Department of Commerce 614-752-7941

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020	Method Specific	Action Level Based	.006500 ppm	Site Specific
	Toluene	EPA Method 8020	Method Specific	Action Level Based	4–12 ppm	Site Specific
	Ethylbenzene	EPA Method 8020	Method Specific	Action Level Based	6-18 ppm	Site Specific
	Total Xylenes	EPA Method 8020	Method Specific	Action Level Based	28-85 ppm	Site Specific
	ТРН	Modified Method 8015	Method Specific	Action Level Based	105-600рргп	Site Specific
Diesel	Benzene	EPA Method 8020	Method Specific	Action Level Based	.006500 ppm	Site Specific
	Toluene	FPA Method 8020	Method Specific	Action Level Based	4-12 ppm	Site Specific
	Ethylbenzene	EPA Method 8020	Method Specific	Action Level Based	6–18 ppm	Site Specific
	Total Xylenes	EPA Method 8020	Method Specific	Action Level Based	28-85 ppm	Site Specific
	PNAs	EPA Method 8100	Method Specific	Any Level	Site Specific	Site Specific
	TPH	EPA Method 418.1	Method Specific	Any Level	380–1156 ppm	Site Specific
Waste Oil	Volatile Organic Aromatics	EPA Method 8240	Method Specific	Any Level	Site Specific	Site Specific
	ТРН	EPA Method 418.1	Method Specific	Action Level Based	380-1156 ppm	Site Specific

Contact: Raymond Roe, Ohio Department of Commerce 614-752-7941

Product—	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean—up Level 1 / 2 / 3 ppm
Gasoline, Diesel and Kerosene	ТРН	•	lppm	any amount above action level	TPH>2ppm B>.005ppm	TPH: 2 / 10 / 25 B: .005 / .05 / .5
	BTEX	•	1ppm	any amount above action level	T>1ppm E>.7ppm	T: 1/10/100 E: .7/7/70
					X>10ppm	X: 10 / 100 / 1000

Note: Oklahoma uses a Remediation Index in determining cleanup standards on a sto-bysic basis.

* No methods are specified—"Whatever methods is specified must be able to detect the most stringent cleanup levels.

Contact: Oklahoma Corporation Commission, Underground Storage Tank Program 405-521-3107

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean—up Level 1/2/3 ppm
Gasoline, Diesel and Kerosene	ТРН	•	1ppm	any amount above action level	TPH>50ppm B>.5ppm	TPH: 50 / 500 / 1000 B: .5 / 5 / 10
	BTEX	•	lppm	any amount above action level	T>40ppm E>15ppm	T: 40 /400 / 1000 E: 15 / 150 / 1000
					X>200ppm	X: 200 / 1000 / 1000
			<u> </u>			
		•				
			<u> </u>			
	·					
			-			

Note: Oklahoma uses a Remediation Index in determining cleanup standards on a size-bysize basis.

* No methods are specified—"Whatever methods is specified must be able to detect the most stringent cleanup levels

Contact: Oklahoma Corporation Commission, Underground Storage Tank Program 405-521-3107

Product _	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 8020 or 8240	.5 ppb	any amount		B: 5ppb, T: 700ppb E: 1000ppb, X: 10,000ppb
	Additives	EPA Method 8010 or 8240	.5 ppb	any amount		1.2-Dibromoethane-1ppb 1.2-Dichlorethane-5ppb Lead-5ppb
Diesel	BTEX	Same As Gasoline Above				
	PAHs	EPA Method 8310	.1 ppb	any amount	-	
	Carcinogenic	~-				Benzo (A) Pyrene .2ppb Benzo(A)Anthracene .1pp
	Non-Carcinogenic					Acenaphthene 420ppb Anthracene 2100ppb Fluoranthene 280ppb Fluorene 280ppb Naphthalene 28ppb Pyrene 210ppb
Waste Oil	Same as Diesel, bu	t must screen for metals, Ch	dorinated and so	metimes PCBs.		1 yraic 21oppo

Note: Oregon uses a site scoring matrix in determined petroleum cleanup standards in soil.

Contact: Michael Anderson, Department of Environmental Quality, 503-229-6764

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	TPH	DE2 Method, TPH-G	10 mg/kg	any amount		Site Specific, Level 1=40ppm, Level 2=80ppm Level 3=130ppm
Diesel	TPH	DE2 Method, TPH-D or TPH-418.1	20 mg/kg	any amount		Site Specific Level 1=100ppm,
						Level 2=500ppm, Level 3=1000ppm,
Waste Oil	ТРН	DE2 Method,TPH-418.1		any amount		(Same as Diesel)

Note: Oregon uses a site scoring matrix in determined petroleum cleanup standards in soil.

Contact: Michael Anderson, Department of Environmental Quality, 503-229-6764

roduet	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level .	Notification Level	Action Level	Clean-up Level
asoline	Benzene	EPA Method 8020	.2 ug/l	any amount	None	Non-Detect
	Toluene	EPA Method 8020	.2 ug/l	any amount	None	Non-Detect
	Ethylbenzene	EPA Method 8020	.2 ug/l	any amount	None	Non-Detect
	Total Xylene	EPA Method 8020		any amount	None	Non-Detect
	PHC	API-GRO	.1 mg/l	any amount	None	Non-Detect
	Total Lead*	None Specified		any amount	None	Non-Detect
Diesel	PHC	API-DRO	.1 mg/l	any amount	None	Non-Detect
		·				
Waste Oil	ТРН	EPA Method 418.1	lppm	any amount	None	Non-Detect
				[

^{*} When tank contained a leaded Gasoline.

Contact: Doug Cordelli, Department of Environmental Resources 717-772-5835

Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Levei
Benzene	EPA Method 8020	2 ug/l	.01ppm	.01ppm	.01ppm
Toluene	EPA Method 8020	2 ug/1	.02ppm	.02ppm	.02ppm
Ethylbenzene	EPA Method 8020	2 ug/l	.02ppm	.02ppm	.02ppm
Total Xylene	EPA Method 8020		.07 ppm	.07ppm	.07ppm
PHC- Petroleum Hydrocarbons	API-GRO	5 mg/kg	10ppm	10ppm	10ppm
Total Lead*	None Specified		any amount	N/A	Residential Areas 200 ppm Industrial Areas 600ppm
PHC	API-DRO	4 mg/kg	10ppm	10ppm	10ppm
	4				
ТРН	EPA Method 418.1		any amount	Site Specific	Site Specific
	Constituent Benzene Toluene Ethylbenzene Total Xylene PHC-Petroleum Hydrocarbons Total Lead* PHC	Benzene EPA Method 8020 Toluene EPA Method 8020 Ethylbenzene EPA Method 8020 Total Xylene EPA Method 8020 PHC-Petroleum Hydrocarbons Total Lead* None Specified PHC API-DRO	Benzene EPA Method 8020 2 ug/l Toluene EPA Method 8020 2 ug/l Ethylbenzene EPA Method 8020 2 ug/l Total Xylene EPA Method 8020 5 mg/kg PHC-Petroleum API-GRO 5 mg/kg PHC API-DRO 4 mg/kg	Benzene EPA Method 8020 2 ug/l .01ppm Toluene EPA Method 8020 2 ug/l .02ppm Ethylbenzene EPA Method 8020 2 ug/l .02ppm Total Xylene EPA Method 8020 .07ppm PHC-Petroleum API-GRO 5 mg/kg 10ppm Hydrocarbons Total Lead* None Specified any amount PHC API-DRO 4 mg/kg 10ppm 4	Benzene EPA Method 8020 2 ug/l .01ppm .01ppm Toluene EPA Method 8020 2 ug/l .02ppm .02ppm Ethylbenzene EPA Method 8020 2 ug/l .02ppm .02ppm Total Xylene EPA Method 8020 2 ug/l .02ppm .02ppm Total Xylene EPA Method 8020 .07ppm .07ppm PHC- Petroleum API-GRO 5 mg/kg 10ppm 10ppm Total Lead* None Specified any amount N/A PHC API-DRO 4 mg/kg 10ppm 10ppm 4 10ppm 10ppm 10ppm 4 10ppm 10ppm 10ppm 10ppm 4 10ppm 10ppm 10ppm 10ppm 4 10ppm 10ppm 10ppm 10ppm 5 10ppm 10ppm 10ppm 10ppm 10ppm TPH EPA Method 418.1 any amount Site

^{*} When tank contained a leaded Gasoline.

Contact: Doug Cordelli, Department of Environmental Resources 717-772-5835

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level (MCLs).
Gasoline	BTEX	EPA Method 8020	Test Specific	any amount	**	B:.5ug/l, T:1000ug/l, E:700ug/l, 10,000ug/l
	мтве	EPA Method 8020	Test Specific	any amount	**	Not Established
	ТРН	EPA Method5030*	Test Specific	any amount	**	Not Established
Diesel	BTEX	EPA Method 8020	Test Specific	any amount	••	B:.5ug/l, T:1000ug/l, E:700ug/l, 10,000ug/l
	Naphthalene	EPA Method 8020	Test Specific	any amount	**	Not Established
	ТРН	EPA Method 3510*	Test Specific	any amount	**	Not Established
Waste Oil	BTEX	EPA Method 8240	Test Specific	any amount	**	B:.5ug/l, T:1000ug/l,
	Naphthalene	EPA Method 8240	Test Specific	any amount	**	E:700ug/1, 10,000ug/1 Not Established
	TPH	EPA Method 9070	Test Specific	any amount	**	Not Established
	8 Drinking Water Metals AA-ICD					

^{*} California method or equivalent.

** Site Specific.

Contact: Mark Berenbrok, South Carolina Department of Health & Environmental Control 803-734-5331

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 8020	1 mg/kg	any amount	**	Site Specific
	ТРН .	EPA Method 5030*	10 mg/kg	any amount	**	Site Specific
				1		
Diesel	BTEX	EPA Method 8020	1 4			Sin Saudifa
Diesei	BIEA	EPA Method 8020	1 mg/kg	any amount		Site Specific
	Naphthalene	EPA Method 8020		any amount	**	Site Specific
	ТРН	EPA Method 3550*	10 mg/kg	any amount	**	Site Specific
Waste Oil	BTEX	EPA Method 8240	1 mg/kg	any amount	**	Site Specific
	Naphthalene	EPA Method 8240		any amount	**	Site Specific
	TPH	EPA Method 9071	10 mg/kg	any amount	**	Site Specific
	8 Drinking Water Metals AA-ICD					

California method or equivalent.
 Site Specific.

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Ethylbenzene	***	.7ppm	.7ppm	.7ppm	.7ppm
	Benzene	***	.005 ppm	.005ppm	.005 ppm	.005ppm
	Toluene	***	1ppm	lppm	1ppm	lppm
	Xylene	***	10ppm	10 ppm	10ppm	10ppm
	ТРН	***	.1ppm	.1ppm	.1ppm	**
Diesel	TPH	***	.1ppm	.1ppm		**
Waste Oil	TPH**	***	.1ppm	.1ppm	.1ppm	

South Dakota does not specifically refer to the groundwater quality standards as Clean-up Standards but in a practical sense they areused as such. **Compliance to the .1ppm level is required if the contamination is within the radius of influence of a well or within a delineated well head protection area, unless a variance is obtained. Otherwise the compliance level is 10ppm.
***No particular method is specified however, methods used must conform with "Standard Methods for Examination of Water and Waste Water" and "EPA Methods, Methods for Chemical Analysis of Waters and Wastes."

Contact: Doug Miller, Department of Environmental and Natural Resources 605-773-3296

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	ТРН	•	10ppm	any amount	10-100 ppm	10-100 ppm**
	,					
Diesel	ТРН	•				
		*				
						·
Waste Oil	ТРН	•				
	EPTOX Methods					

California/ USGS method or similar methods that can quantify TPH by integrating all detectable peaks within the time period in which 95% of the recoverable Hydrocarbons are cluded. ** Action Levels/ Clean-up Levels are Site Specific and are based on the type of contaminant released, depth to an aquifer and the soil type present.

Contact: Doug Miller, Department of Environmental and Natural Resources 605-773-3296

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Levei	Action Level	Clean-up Level
Gasoline	Benzene	SW-846 5030 P&T/ 8020 GC	.002 ppm	any amount	> 5ppb	Applic. <u>CL</u> based on GW Class, > 5ppb or >70pp
	ТРН	Tennessee Method for Gasoline Range Organics	.1ppm	any amount	> 100ppb	> 100ppb or >1000ppb
·						
Diesel	ТРН	Tennessee Method for Diesel Range Organics	.lppm	any amount	> 100ppb	> 100ppb or >1000ppb
		,				
Waste Oil	ТРН	5520F, 503E or 418.1	1ppm	any amount	> 100ppb	> 100ppb or >1000ppb

Contact: Curtis Hopper, Tennessee Department of Environment and Conservation 615-741-4081

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection i Level	Notification Level	Action Level	Clean-up Level
Gasoline	Total BTX	SW-846 5030 P&T/ 8020 GC	.002ppm	any amount	>10 ppm	Applic. CL based on GW Class & Soil Perm. > 10ppm—>500p
	ТРН	TN Method for Gasoline Range Organics	10 ppm	any amount	>100 ppm	> 100ppm — >1000ppm
Diesel	ТРН	TN Method for Diesel Range Organics	10ppm	any amount	>100 ppm	> 100ppm — >1000ppm
Waste Oil	ТРН	5520F, 503E or 418.1	100ppm	any amount	>100 ppm	> 100ppm — >1000ppm

Contact: Curtis Hopper, Termessee Department of Environment and Conservation 615-741-4081

Product -	- Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020	lppb	any amount	•	Site Specific/Risk-based*
	Toluene	EPA Method 8020	1ppb	any amount	*	Site Specific/Risk-based
	Ethylbenzene	EPA Method 8020	1ppb	any amount	•	Site Specific/Risk-based
	Xylene	EPA Method 8020	lppb	any amount		Site Specific/Risk-based
	ТРН	EPA Method 418.1	.5ppm	any amount	Site Specific	Site Specific/Risk-based
Diesel	Benzene	EPA Method 8020	lppb	any amount	•	Site Specific/Risk-based
	Toluene	EPA Method 8020	1ppb	any amount	•	Site Specific/Risk-based
	Ethylbenzene	EPA Method 8020	1ppb	any amount	•	Site Specific/Risk-based
	Xylene	EPA Method 8020	lppb	any amount	•	Site Specific/Risk-based
<u> </u>	TPH	EPA Method 418.1	.5ppm	any amount	Site Specific	Site Specific/Risk-based
	PAHs	EPA Method 8100, 8270, 8310	Chemical Specific	any amount	Site Specific	Site Specific/Risk-based
Waste Oil	BTEX	EPA Method 8020	lppb	any amount	*	Site Specific/Risk-based
	ТРН	EPA Method 418.1	.5ppm	any amount	Site Specific	Site Specific/Risk-based
	VOCs	EPA Method 8240	Chemical Specific	any amount	Site Specific	Site Specific/Risk-based
	PAH	EPA Method \$100, \$270, \$310	Chemical Specific	any amount	Site Specific	Site Specific/Risk-based

^{*} EPA Maximum Contaminant Level.
** No Range Available.

Contact: Chris Chandler, Texas Natural Resource Commission 512-908-2247

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020	.5mg/kg	any amount	*	Site Specific/Risk-based*
	Toluene	EPA Method 8020	.5mg/kg	any amount	•	Site Specific/Risk-based
	Ethylbenzene	EPA Method 8020	.5mg/kg	any amount	*	Site Specific/Risk-based
	Xylene	EPA Method 8020	.5mg/kg	any amount	•	Site Specific/Risk-based
	ТРН	EPA Method 418.1	10mg/kg	any amount	•	Site Specific/Risk-based
Diesel	Benzene	EPA Method 8020	.5mg/kg	any amount	*	Site Specific/Risk-based
	Toluene	EPA Method 8020	.5mg/kg	any amount	•	Site Specific/Risk-based
	Ethylbenzene	EPA Method 8020	.5mg/kg	any amount	•	Site Specific/Risk-based
	Xylene	EPA Method 8020	.5mg/kg	any amount	•	Site Specific/Risk-based
	TPH	EPA Method 418.1	10mg/kg	any amount	•	Site Specific/Risk-based
	PAHs	EPA Method 8100, 8270, 8310	Chemical Specific	any amount	•	Site Specific/Risk-based
Waste Oil	BTEX	EPA Method 8020	.5mg/kg each	any amount	*	Site Specific/Risk-based
_ ,	ТРН	EPA Method 418.1	10mg/kg	any amount	•	Site Specific/Risk-based
	VOCs	EPA Method 8240	Chemical Specific	any amount	•	Site Specific/Risk-based
	PAH	EPA Method \$100, \$270, \$310	Chemical Specific		*	Site Specific/Risk-base

^{*} Product Specific/ Site Specific.
** No Range Available.

Contact: Chris Chandler, Texas Natural Resource Commission 512-908-2247

Product —	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
rasoline	ТРН	CDHS Method 8015 Modified	500ug/1	any amount	500ug/1	
	Benzene	EPA Method 602 or 624	2ug/1		Sug/I	•
	Toluene	EPA Method 602 or 624	2ug/l		1000ug/l	•
	Ethylbenzene	EPA Method 602 or 624	2ug/1		700ug/1	•
	Xylene	EPA Method 602 or 624	2ug∕l		10,000ug/l	•
	Naphthalene	EPA Method 602 or 624	2ug/l		20ug/l	*
Diesel	ТРН	CDHS Method 8015 Modified	500ug/1	any amount	500ug/1	•
	Benzene		2ug/l		5ug/1	•
	Toluene		2ug/1		1000ug/1	•
	Ethylbenzene		2ug/1		700ug/1	*
	Xylene		2ug/1		10,000ug/1	•
	Naphthalene		2ug/1		20ug/1	•
Waste Oil	TRPH	EPA Method 418.1	500ug/1	any amount		•
	Oil & Grease	EPA Method 413.1	10,000ug/1	any amount	10,000ug/l	10,000ug/l
	BTEXN	Same as Diesel BTEXN	4 bove			

* Same as Action Level, but Site Specific
Note: Depends on level of environmental sensitivity and is determined on a case-by-case basis.

Contact: Robin Davis Jenkins, Utah Department of Environmental Quality 801-536-4100

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Jasoline**	ТРН	CDHS Method 8015 Modified	10mg/kg	any amount	30mg/kg	
	Benzene	EPA Method 8020	.2mg/kl	any amount	.2mg/kg	• .
	Toluene	EPA Method 8020	.2mg/kl	any amount	100mg/kg	•
	Ethylbenzene	EPA Method 8020	.2mg/kl	any amount	70mg/kg	•
	Xylene	EPA Method 8020	.2mg/kl	any amount	1000mg/kg	
Diesel	ТРН	CDHS Method 8015 Modified	10mg/kg	any amount	100mg/kg	*
<u></u>	Benzene	EPA Method 8020	.2mg/kl	any amount	.2mg/kg	•
	Toluene	EPA Method 8020	.2mg/kl	any amount	100mg/kg	•
	Ethylbenzene	EPA Method 8020	.2mg/kl	any amount	70mg/kg	•
	Xylene	EPA Method 8020	.2mg/kl	any amount	1000mg/kg	•
	Naphthalene	EPA Method 8020	.2mg/kl	any amount		•
Waste Oil	TRPH	EPA Method 418.1	100mg/kg	any amount	100mg/kg	•
	Oil & Grease	EPA Method 413.1	100mg/kg	any amount	300mg/kg	•
	BTEXN	Same as Diesel BTEXN	Above			

^{*} Same as Action Level, but Site Specific. ** Level 1 environmental Sensitivity.

Note: Depends on level of environmental sensitivity and is determined on a case-by-case basis.

Contact: Robin Davis Jenkins, Utah Department of Environmental Quality 801-536-4100

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8020	lppb	any amount	5 ppb	Site Specific
	Toluene	EPA Method 8020	lppb	any amount	2420ppb	Site Specific
	Ethylbenzene	EPA Method 8020	lppb	any amount	680ppb	Site Specific
	Xylenes	EPA Method 8020	1ppb	any amount	400ppb	Site Specific
	МТВЕ	EPA Method 8020	1ppb	any amount	40ррь	Site Specific
Diesel	Benzene	EPA Method 8020	1ppb	any amount	5рро	Site Specific
	Toluene	EPA Method 8020	1ppb	any amount	2420ppb	Site Specific
	Ethylbenzene	EPA Method 8020	1ppb	any amount	680ppb	Site Specific
	Xylenes	EPA Method 8020	1ppb	any amount	400ррь	Site Specific
			,			
Waste Oil	VOCs	EPA Method 8240	1ppb	any amount	*	Site Specific

^{*} Compound specific groundwater enforcement standard

Contact: Chuck Schwer, Vermont Agency of Environmental Conservation 802-241-3888

втех	EPA Method 8020	100ppb (Required ug/kg)	any amount	•	Site Specific
		(Required ug/kg)			1
					·
BTEX	EPA Method 8020		any amount	*	
ТРН	EPA Method 418.1 or Extended GC	10ррт	any amount	1000 ppm	Site Specific
		·			
VOCs	EPA Method 8240	100 ug/kg	any amount	•	Site Specific
	ТРН	TPH EPA Method 418.1 or Extended GC	TPH EPA Method 418.1 10ppm or Extended GC	TPH EPA Method 418.1 10ppm any amount or Extended GC	TPH EPA Method 418.1 10ppm any amount 1000 ppm or Extended GC

^{* 20} times the groundwater enforcement standard for specific compounds.

Product _	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
isoline	BTEX	EPA Method 8020	•	any amount		Site Specific/Risk Based
	ТРН	Cal Luft Method	.5 mg/l	any amount		Site Specific/Risk Based
Diesel	BTEX	EPA Method 8020	*	any amount		Site Specific/Risk Based
	ТРН	Cal Luft Method	.5 mg/l	any amount		Site Specific/ Risk Bases
Waste Oil	ТРН	Cal Luft Method	.5 mg/l	any amount		Site Specific/Risk Basec

PQL for consuments as stated in SW846. Note: Methods above are required for remediation monitoring under permit. During Site Characterization, Closure, etc. All EPA Approved methods and Cal Luft Method for TPH are acceptable.

Contact: Dave Chance, Virginia Water Central Board 804-527-5188

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 8020	*	any amount		Site Specific/Risk Based
	ТРН	Cal Luft Method	10 mg/kg	any amount		Site Specific/Risk Based
Diesel	BTEX	EPA Method 8020	•	any amount		Site Specific/Risk Based
	ТРН	Cal Luft Method	10 mg/kg	any amount		Site Specific/ Risk Based
Waste Oil	ТРН	Cal Luft Method	•	any amount		Site Specific/Risk Based

PQL for constituents as stated in SW846. Note: Methods above are required for remediation monitoring under permit. During Site Characterization, Closure, etc., All EPA Approved methods and Cal Luft Method for TPH are acceptable.

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	BTEX	EPA Method 602, 604	•	any amount	NS	B: 5ppb, T: 40ppb E: 30ppb, X: 20ppb
	TPH	WTPH-G	*	any amount	NS	1000ррь
	Total Lead	EPA Method 7421	•	any amount	NS	5ppb
Diesel	ТРН	WTPH-D	•	any amount	NS	1000ррь
Waste Oil	TCLP	·-	•	any amount	NS	Analyte Specific
	PCB	EPA Method 608	*	any amount	NS	.1 ug/1
	Total Metals	EPA Method 6010, 7000	*	any amount	NS	Metal Specific
	Volatile Organics	EPA Method 601, 602, and 624	*	any amount	NS	Analyte Specific
	Phenais	EPA Method 604/ 625	*	any amount	NS	Analyte Specific
	PANs	EPA Method 610/ 625	*	any amount	NS	.1 ug/l

^{*} Test Specific. NS=Not Specified.

Contact: Richard Boose, Washington Department of Ecology, 206-459-6000

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection i Level	Notification Level	Action Level	Clean-up Level Method A / Method B
Gasoline	Benzene	EPA Method 8020 or 8240	*	any amount	NS	.5mg/kg / .5mg/kg
	Ethylbenzene	EPA Method 8020 or 8240	*	any amount	NS	20mg/kg / 20mg/kg
	Toluene	EPA Method 8020 or 8240	*	any amount	NS	40mg/kg / 40mg/kg
	Xylenes	EPA Method 8020 or 8240	•	any amount	NS	20mg/kg / 20mg/kg
	ТРН	WTPH-G	*	any amount	NS	100mg/kg / 100mg/kg
	Total Lead	EPA Method 6010, 7420 or 7421	*	any amount	NS	250mg/kg / 1000mg/kg
Diesel	ТРН	WTPH-D	•	any amount	NS	200mg/kg / 200mg/kg
		4				
Waste Oil.	TCLP	EPA Method 1311	*	any amount	NS	Analyte Specific
	PCBs .	EPA Method 8080	•	any amount	NS	1mg/kg
	Volatile Organics	EPA Method (8010, 8020) or 8240	•	any amount	NS	Analyte Specific
	Phenais	EPA Method 8040 or 8270	-	any amount	NS	Analyte Specific
	PAHs	EPA Method 8100 or 8270	•	any amount	NS	lmg/kg
	Total Metals	EPA Method 9071	•	any amount	NS	Metal Specific

^{*} Test Specific. NS=Non Specified. Note: Washington State has rating matrix for establishing cleanup standards. Method B is industrial soil, Method A is residential. Method C is non-residential non-industrial clean-up on a case by case basis.

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Levei	Clean-up Level
Gasoline	Benzene	EPA Method 8020	lppb	any amount	5ррь	5 ррb
	Toluene	EPA Method 8020	1ppb	any amount	1000 ppb	1000 ppb
	Ethylbenzene	EPA Method 8020	lppb	any amount	700 ppb	700 ppb
<u> </u>	Xylenes	EPA Method 8020	lppb	any amount	10,000 ppb	10,000 ppb
	ТРН	EPA Method 8015 Modified, GRO & DRO	.5ppm	any amount		Site Specific
Diesel	Benzene	EPA Method 8020	lppb	any amount	5ppb	5ppb
	Toluene	EPA Method 8020	1ppb	any amount	1000 ppb	1000 ppb
	Ethylbenzene	EPA Method 8020	lppb	any amount	700 ppb	700 ppb
	Xylenes	EPA Method 8020	1ppb	any amount	10,000 ppb	10,000 ppb
	ТРН	EPA Method 8015 Modified, GRO & DRO	.5ppm	any amount		Site Specific
Waste Oil						

Contact: Mike Sutphin, West Virginia Department of Natural Resources 304-558-6371

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Ciean-up Level
Gasoline	Benzene	EPA Method 8020		any amount	50ррь	Site Specific
	Toluene	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
	Ethylbenzene	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
	Xylenes	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
-	ТРН	EPA Method 8015 Modified*			50ppm	Site Specific
Diesel	Benzene	EPA Method 8020		any amount	50ppb	Site Specific
	Toluene	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
	Ethylbenzene	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
	Xylenes	EPA Method 8020		any amount	10ppm total BTEX	Site Specific
	ТРН	EPA Method 8015 Modified*			100ppm	Site Specific
Waste Oil			_			•

^{*} Report GRO and DRO separately

Contact: Mike Sutphin, West Virginia Department of Natural Resources 304-558-6371

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	GRO, VOC ³	DNR WI Modified CRO Method EPA Method 5030/8021	**	any amount any amount	None None	Site Specific
	PVOC Benzene	# EPA Method 8021 or 5030/8020	**	any amount any amount	None Sppb	Site Specific
	Toluene Xylenes	•	**	any amount any amount	1000ppb6 10ppm6	Site Specific
	Ethylbenzene MTBE ³	EPA Method 8021	**	any amount any amount	700ppb6 60ppb	Site Specific
	Lead ³	EPA Method 3020/7421	4.4	any amount	15ppb6	Site Specific
Diesel	GRO, VOC ^{3,} PVOC	Same as above for Gasloli	ne		None	None
	PAH ⁴	EPA Method 8310 (HDLC)	**	any amount	See Below	See Below
	BTEX & MTBE	Same as above for Gasolin	e	<u> </u>		
Waste Oil	PCBs4	EPA Method 3510/8080, or 3520/8080	**	any amount	.036	.0036
	DROS, VOC3, PVOC	Same as above for Gasoli	c		None	None
	РЬЗ	EPA Method 3020/7421	**	any amount	15ppb6	1.5ppb6
	CD3	EPA Method 3020/7131	**	any amount	5ppb6	.5ppb6
PAHs	Benzo (A) Pyrene	EPA Method 8310 (HDLC	**	any amount	.003ррь	.0003ррь
	Napthalene	EPA Method 8310 (HDLC	••	any amount	40ppb	8ppb

EPA Method 5030/ 8021 or 5030/ 8020 ° Test Specific, Notes: (1) Wisconsin Admin. Code NR140 Enforcement Standard (active remody required). (2) Wisconsin Admin. Code NR140 Preventative Action Level (clean-up goal). (3) Sample at least once. (4) Site Specific. (5) See analytical guidance. (6) Proposed new level, scheduled for early 1994

Contact: Laurie Egre, Wisconsin Department of Natural Resources 608-267-7560

Product	Parameter/ Constituent	Lab Test Protocoi & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	GRO	WI DNR Modified GRO Method	**	any amount	10 ppm ⁴	Site Specific
	PVOC1	EPA Method 8260 or 5030/8020 or 5030/8021	**	any amount	Any Amount ^S	Site Specific
	PB ²	EPA Method 3050/7420 or 3050/7421 or 3050/6010	**	any amount	Ariy Amount ⁵	Site Specific
Diesel	DRO	WI DNR Modified DRO Method	**	any amount	10 ppm ⁴	Site Specific
	PVOC	EPA Method 8260 or 5030/8020 or 5030/8021	**	any amount	Any Amount ⁵	Site Specific
	PAH ³	EPA Method 8310HDLC 3540/8270 or 3550/8270	**	any amount	Any Amount ⁵	Site Specific
Waste Oil	DRO ³	WI DNR Modified DRO Method	**	any amount	10 ppm	Site Specific
	PAH ³	EPA Method 8310HDLC 3540/8270 or 3550/8270		any amount	Any Amount ⁵	Site Specific
	VOC	EPA Method 5030/8021 or 8260	**	any amount	Any Amount ⁵	Site Specific
	PVOC ^{2, 3}	EPA Method 5030/8020 or 5030/8021 or 8260	**	any amount	Any Amount	Site Specific
	PCB	EPA Method 3540/8080 or 3550/ 8080	**	any amount	Any Amount ⁵	Site Specific
	PB	EPA Method 3050/7420 or 3050/7421 or 3050/6010	••	any amount	Any Amount ⁵	Site Specific
	Cd ^{2, 3}	EPA Method 3050/7130 3050/7131 or 3050/6010	**	any amount	Any Amount	Site Specific

^{*} Soil clean-up criteria have been drafted, but not yet promulgated by rule. ** Test Specific. Notes: (1) Petroleum Volatile Organic Compounds-defined in Analytical Guidance. (2) Sample at least once. (3) See Analytical Guidance. (4) At tank removal. (5) Size specific-may require investigation, may require clean-up.

Contact: Laurie Egre, Wisconsin Department of Natural Resources 608-267-7560

Product -	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 524.2	.5 ug/l	any amount	>5ug/1	Sug/l
	Ethylbenzene	EPA Method 524.2	.5 ug/l	any amount	>700ug/1	700ug/l
	Toluene	EPA Method 524.2	.5 ug/l	any amount	>1000ug/i	1000ug/1
	Xylenes	EPA Method 524.2	.5 ug/l	any amount	>10,000ug/1	10,000ug/1
Leaded Gas	Total Lead	EPA Method 239.2	5 ug/1	any amount	>50ug/l	50ug/1
	ТРН	Modified 8015 GRO	4 ug/1	any amount	>10ug/1	10ug/1
Fuel Oils	BTEX same as Gasoline					
	ТРН	Modified 8015 DRO	4 ug/l	any amount	>10ug/1	10ug/1
Waste Oil	BTEX same as Gasoline					
	TPH	Modified 8015 DRO	4 ug/l	any amount	>10ug/1	10ug/1
	Total Lead	EPA Method 239.2	5 ug/l	any amount	>50ug/1	50ug/1
 	Total Cadmium	EPA Method 213.2	1 ug/i	any amount	>lug/l	lug/l
	Total Chromium	EPA Method 218.1	50 ug/1	any amount	>100ug/1	100ug/1

Contact: LeRoy Feusner, Department of Environmental Quality 307-777-7096

roduct	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Clean-up Level
Gasoline	Benzene	EPA Method 8021	.1mg/kg	any amount	*	•
	Ethylbenzene	EPA Method 8021	.1mg/kg	any amount	*	•
	Toluene	EPA Method 8021	.lmg/kg	any amount	•	*
	Xylenes	EPA Method 8021	.1mg/kg	any amount	•	•
Leaded Gas	Total Lead	EPA Method 7421/6010	5mg/kg	any amount	•	•
	ТРН	Modified 8015 GRO	4mg/kg	any amount	>30mg/l >100mg/l	30mg/l gw<50' 100mg/l gw>50'
Fuel Oils	BTEX same as Gasoline					
	ТРН	Modified 8015 DRO	4 mg/kg	any amount	>100mg/kg	100mg/kg
Waste Oil	BTEX same as Gasoline					,
	ТРН	Modified 8015 DRO	4 mg/kg	any amount	>100mg/kg	100mg/kg
	Total Lead	EPA Method 7421/6010	5 mg/kg	any amount	•	•
	Total Cadmium	EPA Method 7131/6010	.5 mg/kg	any amount	•	•
	Total Chromium	EPA Method 7421/6010	.5 mg/kg	any amount	*	*

^{*} Sits Specific. Note: Site Specific soil action/ clean-up levels for organic compounds/ elements are determined from an environmental fats/ transport-nisk model contained in the WDEQ/ WQD technical guidance document, Procedures for Eastablishing Environmental Restoration Standards for Leaking Underground Storage Tank Remediation Actions

**Contact: LeRoy Feusner, Department of Environmental Restoration Standards for Leaking Underground Storage Tank Remediation Actions

CONNECTICUT

The State of Connecticut

Department of Environmental

Protection advises interested parties to
call their General Information
number, 203-566-5599, for more
information. They are in the process
of developing quantitative standards
for hydrocarbon contaminated soil
and groundwater.

RHODE ISLAND

The State of Rhode Island
Department of Environmental
Management advises interested parties
to call their Division of Site
Remediation, 401-277-2234, due to
site specific requirements.

COLORADO

Because of program specific requirements the state of Colorado has set up a Public Assistance Desk to help individuals understand Colorado's Hydrocarbon Contaminated Soil and Groundwater Guidelines.

Please Contact 303-692-3330 for more information.

MARYLAND

The State of Maryland Department of Environment advises interested parties to call their Oil Control Program at 410-631-3442.

NEW HAMPSHIRE

The State of New Hampshire

Department of Environmental

Services advises interested partites to

call 603-271-3503 for more

information on clean-up standards